CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/NVR /W.No.14/2021-22 Date: 03.02.2022

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** T.Dasarahalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri.Narayanappa Venkata Reddy,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements to Roads Drains and other Maintenance Behind KSCMF Building and Surrounding area in Ward No.14 Bagalagunte –Call 2,BBMP,Bangalore
SAMPLE ID	:	Cement (Birla OPC 53 Grade)
DATE OF MANUFACTURE		January - 2022
DATE OF TESTING		01.02.2022 TO 03.02.2022
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	340 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.00 %	-

Note:

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⇒ Any Query regarding the report must be reported within 30days from the date of testing.

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Job No.: CACE/BBMP/NVR /W.No.14/2021-22

Date : 03.02.2022

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **Sri.Narayanappa Venkata Reddy, Contractor, Bangalore.**

Name of Work : Improvements to Roads Drains and other Maintenance Behind KSCMF Building and Surrounding area in Ward No.14 Bagalagunte –Call 2,BBMP,Bangalore.

Date of Testing : 03.02.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand

Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	84	8.40	8.40	91.6	90-100
2.36	132	13.20	21.60	78.4	75-100
1.18	189	18.90	40.50	59.5	55-90
600 Micron	152	15.20	55.70	44.3	35-59
300 Micron	244	24.40	80.10	19.9	8-30
150 Micron	115	11.50	91.60	8.4	0-10

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Job No.: CACE/BBMP/NVR /W.No.14/2021-22

Date : 03.02.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri.Narayanappa Venkata Reddy, Contractor, Bangalore.

Name of Work : Improvements to Roads Drains and other Maintenance Behind KSCMF Building and Surrounding area in Ward No.14 Bagalagunte –Call 2,BBMP,Bangalore.

Date of Testing : 03.02.2022

Material : Sand - Masonry

Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	12	1.20	1.20	98.8	90-100
1.18	35	3.50	4.70	95.3	70-100
600 Micron	89	8.90	13.60	86.4	40-100
300 Micron	265	26.50	40.10	59.9	5-70
150 Micron	488	48.80	88.90	11.1	0-15

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Job No.: CACE/BBMP/NVR /W.No.14/2021-22 Date : 03.02.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **Sri.Narayanappa Venkata Reddy, Contractor, Bangalore.**

Name of Work : Improvements to Roads Drains and other Maintenance Behind KSCMF Building and Surrounding area in Ward No.14 Bagalagunte –Call 2,BBMP,Bangalore.

Date of Testing : 03.02.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	184	3.7	3.7	96.3	95-100
10	2430	48.6	52.3	47.7	25-55
4.75	1989	39.8	92.1	7.9	0-10

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Date : 03.02.2022

Job No.: CACE/BBMP/NVR /W.No.14/2021-22

TEST REPORT ON COARSE AGGREGATES

Client : Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri.Narayanappa Venkata Reddy, Contractor, Bangalore.

Name of Work : Improvements to Roads Drains and other Maintenance Behind KSCMF Building and Surrounding area in Ward No.14 Bagalagunte –Call 2,BBMP,Bangalore.

Date of Testing : 03.02.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	174	1.16	1.16	98.84	95-100
20	8265	55.10	56.26	43.74	30-70
10	3250	21.67	77.93	22.07	10-35
4.75	2856	19.04	96.97	3.03	0-5

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Job No.: CACE/BBMP/NVR /W.No.14/2021-22 Date: 22.02.2022

PRECAST SLAB 250mm Thick(CORE) TEST REPORT

Client	:	Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.
Contractor	:	Sri.Narayanappa Venkata Reddy, Contractor, Bangalore
Name of Work	:	Improvements to Roads Drains and other Maintenance Behind KSCMF Building and Surrounding area in Ward No.14 Bagalagunte –Call 2,BBMP,Bangalore
No.of Sample Tested	:	03
Date of Testing	:	22.02.2022
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	82.00	0.375	2329.10	1.64	0.961	32.60	16.60	17.93	17.23	21.54
2	50.00	84.00	0.389	2358.52	1.68	0.965	33.50	17.06	18.43	17.79	22.24
3	50.00	86.00	0.405	2398.43	1.72	0.970	34.20	17.42	18.81	18.24	22.80

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Job No.: CACE/BBMP/NVR /W.No.14/2021-22

Date: 22.02.2022

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client : **Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.**

Contractor : **Sri.Narayanappa Venkata Reddy, Contractor, Bangalore.**

Name of Work : Improvements to Roads Drains and other Maintenance Behind KSCMF Building and Surrounding area in Ward No.14 Bagalagunte –Call 2,BBMP,Bangalore

No.of Sample Tested : 03

Date of Testing : 22.02.2022

Techinical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Grade of Concrete : M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	83.00	0.381	2337.85	1.66	0.963	32.10	16.35	17.66	17.01	21.26
2	50.00	85.00	0.394	2360.74	1.70	0.968	32.90	16.76	18.10	17.51	21.89
3	50.00	87.00	0.408	2388.42	1.74	0.972	33.60	17.11	18.48	17.96	22.45

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Job No.: CACE/BBMP/NVR /W.No.14/2021-22 Date: 15.02.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **Sri.Narayanappa Venkata Reddy, Contractor, Bangalore.**

Name of the work : Improvements to Roads Drains and other Maintenance Behind KSCMF Building and Surrounding area in Ward No.14 Bagalagunte –Call 2,BBMP,Bangalore.

Sample ID : Cement Concrete for raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.02.2022	15.02.2022	8.165	326.3	14.50
2	08.02.2022	15.02.2022	8.138	365.3	16.24
3	08.02.2022	15.02.2022	8.146	346.8	15.41

Note:

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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Job No.: CACE/BBMP/NVR /W.No.14/2021-22

Date : 04.02.2022

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client	**: Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	**: Sri.Narayanappa Venkata Reddy, Contractor, Bangalore.**
Name of Work	: Improvements to Roads Drains and other Maintenance Behind KSCMF Building and Surrounding area in Ward No.14 Bagalagunte –Call 2,BBMP,Bangalore
Steel Dia/Length	: 8mm,10mm,12mm " Fe500 TMT Bars
Reference to BIS codes	: IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification
	: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature
Date of test	: 04.02.2022

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.396	545	632	1.16	14
2	TMT	10	0.618	559	652	1.17	15.5
3	TMT	12	0.889	568	668	1.18	17

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Job No.: CACE/BBMP/NVR /W.No.14/2021-22 Date: 08.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	**: Sri.Narayanappa Venkata Reddy, Contractor, Bangalore.**
Name of the work	: Improvements to Roads Drains and other Maintenance Behind KSCMF Building and Surrounding area in Ward No.14 Bagalagunte –Call 2,BBMP,Bangalore.
Sample ID	: Cement Concrete for raft
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.02.2022	08.03.2022	8.168	505.2	22.45
2	08.02.2022	08.03.2022	8.145	516.2	22.94
3	08.02.2022	08.03.2022	8.159	488.9	21.73

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04/03/2

Job No.: CACE/BBMP/NVR /W.No.14/2021-22 Date: 18.02.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri.Narayanappa Venkata Reddy, Contractor, Bangalore.

Name of the work : Improvements to Roads Drains and other Maintenance Behind KSCMF Building and Surrounding area in Ward No.14 Bagalagunte –Call 2,BBMP,Bangalore.

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.02.2022	18.02.2022	8.149	356.2	15.83
2	11.02.2022	18.02.2022	8.150	332.8	14.79
3	11.02.2022	18.02.2022	8.138	346.4	15.40

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Job No.: CACE/BBMP/NVR /W.No.14/2021-22 Date: 11.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.
Agency	: Sri.Narayanappa Venkata Reddy, Contractor, Bangalore.
Name of the work	: Improvements to Roads Drains and other Maintenance Behind KSCMF Building and Surrounding area in Ward No.14 Bagalagunte –Call 2,BBMP,Bangalore.
Sample ID	: Cement Concrete for Wall
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.02.2022	11.03.2022	8.168	505.2	22.45
2	11.02.2022	11.03.2022	8.145	516.2	22.94
3	11.02.2022	11.03.2022	8.159	488.9	21.73

Note:

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ಬಾಗಲಗುಂಟೆ, ಜಿ.ಜಿ.ಬಿ.ಪಿ
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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No.01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
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Job No.: CACE/BBMP/NVR /W.No.14/2021-22 Date: 18.02.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri.Narayanappa Venkata Reddy, Contractor, Bangalore.

Name of the work : Improvements to Roads Drains and other Maintenance Behind KSCMF Building and Surrounding area in Ward No.14 Bagalagunte –Call 2,BBMP,Bangalore.

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.02.2022	18.02.2022	8.135	346.8	15.41
2	11.02.2022	18.02.2022	8.146	329.4	14.64
3	11.02.2022	18.02.2022	8.152	336.8	14.97

Note:

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Job No.: CACE/BBMP/NVR /W.No.14/2021-22 Date: 11.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **Sri.Narayanappa Venkata Reddy, Contractor, Bangalore.**

Name of the work : Improvements to Roads Drains and other Maintenance Behind KSCMF Building and Surrounding area in Ward No.14 Bagalagunte –Call 2,BBMP,Bangalore.

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.02.2022	11.03.2022	8.198	515.2	22.90
2	11.02.2022	11.03.2022	8.165	506.8	22.52
3	11.02.2022	11.03.2022	8.146	488.9	21.73

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Job No.: CACE/BBMP/NVR /W.No.14/2021-22 Date: 21.02.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri.Narayanappa Venkata Reddy, Contractor, Bangalore.

Name of the work : Improvements to Roads Drains and other Maintenance Behind KSCMF Building and Surrounding area in Ward No.14 Bagalagunte –Call 2,BBMP,Bangalore.

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.02.2022	21.02.2022	8.135	324.8	14.44
2	14.02.2022	21.02.2022	8.124	356.3	15.84
3	14.02.2022	21.02.2022	8.149	339.6	15.09

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Job No.: CACE/BBMP/NVR /W.No.14/2021-22 Date: 14.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **Sri.Narayanappa Venkata Reddy, Contractor, Bangalore.**

Name of the work : Improvements to Roads Drains and other Maintenance Behind KSCMF Building and Surrounding area in Ward No.14 Bagalagunte –Call 2,BBMP,Bangalore.

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.02.2022	14.03.2022	8.184	500.9	22.26
2	14.02.2022	14.03.2022	8.169	484.6	21.54
3	14.02.2022	14.03.2022	8.146	492.5	21.89

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Job No.: CACE/BBMP/NVR /W.No.14/2021-22 Date: 23.02.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	**: Sri.Narayanappa Venkata Reddy, Contractor, Bangalore.**
Name of the work	: Improvements to Roads Drains and other Maintenance Behind KSCMF Building and Surrounding area in Ward No.14 Bagalagunte –Call 2,BBMP,Bangalore.
Sample ID	: Cement Concrete for Wall
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.02.2022	23.02.2022	8.184	354.2	15.74
2	16.02.2022	23.02.2022	8.169	336.9	14.97
3	16.02.2022	23.02.2022	8.152	328.4	14.60

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Job No.: CACE/BBMP/NVR /W.No.14/2021-22 Date: 16.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri.Narayanappa Venkata Reddy, Contractor, Bangalore.

Name of the work : Improvements to Roads Drains and other Maintenance Behind KSCMF Building and Surrounding area in Ward No.14 Bagalagunte –Call 2,BBMP,Bangalore.

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.02.2022	16.03.2022	8.184	515.2	22.90
2	16.02.2022	16.03.2022	8.169	493.6	21.94
3	16.02.2022	16.03.2022	8.152	488.9	21.73

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Job No.: CACE/BBMP/NVR /W.No.14/2021-22 Date : 25.02.2022

GRADATION FOR DRY LEAN CONCRETE
MORTH TABLE-600-1

Client : **Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **Sri.Narayanappa Venkata Reddy, Contractor, Bangalore.**

Name of Work : Improvements to Roads Drains and other Maintenance Behind KSCMF Building and Surrounding area in Ward No.14 Bagalagunte –Call 2,BBMP,Bangalore

Date of Testing : 25.02.2022

Material : Dry Lean Concrete

Oven Dry Wt (gm): **10000**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
26.5	0	0	0	100	100
19	1130	1130	11.3	88.7	80-100
9.5	2638	3768	37.7	62.3	55-75
4.75	1548	5316	53.2	46.8	35-60
0.600	2830	8146	81.5	18.5	10-35
0.075	1168	9314	93.1	6.9	0-8

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Job No.: CACE/BBMP/NVR /W.No.14/2021-22 Date: 07.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **Sri.Narayanappa Venkata Reddy, Contractor, Bangalore.**

Name of the work : Improvements to Roads Drains and other Maintenance Behind KSCMF Building and Surrounding area in Ward No.14 Bagalagunte –Call 2,BBMP,Bangalore

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.02.2022	07.03.2022	8.164	505.2	22.45
2	28.02.2022	07.03.2022	8.152	516.4	22.95
3	28.02.2022	07.03.2022	8.138	488.9	21.73

Note:

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Job No.: CACE/BBMP/NVR /W.No.14/2021-22 Date: 28.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri.Narayanappa Venkata Reddy, Contractor, Bangalore.

Name of the work : Improvements to Roads Drains and other Maintenance Behind KSCMF Building and Surrounding area in Ward No.14 Bagalagunte –Call 2,BBMP,Bangalore

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.02.2022	28.03.2022	8.184	708.2	31.48
2	28.02.2022	28.03.2022	8.169	716.9	31.86
3	28.02.2022	28.03.2022	8.146	724.6	32.20

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Job No.: CACE/BBMP/NVR /W.No.14/2021-22 Date: 07.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **Sri.Narayanappa Venkata Reddy, Contractor, Bangalore.**

Name of the work : Improvements to Roads Drains and other Maintenance Behind KSCMF Building and Surrounding area in Ward No.14 Bagalagunte –Call 2,BBMP,Bangalore

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.02.2022	07.03.2022	8.147	489.6	21.76
2	28.02.2022	07.03.2022	8.168	505.2	22.45
3	28.02.2022	07.03.2022	8.177	516.8	22.97

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Job No.: CACE/BBMP/NVR /W.No.14/2021-22 Date: 28.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	**: Sri.Narayanappa Venkata Reddy, Contractor, Bangalore.**
Name of the work	: Improvements to Roads Drains and other Maintenance Behind KSCMF Building and Surrounding area in Ward No.14 Bagalagunte –Call 2,BBMP,Bangalore
Sample ID	: Cement Concrete for Raft
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.02.2022	28.03.2022	8.198	708.2	31.48
2	28.02.2022	28.03.2022	8.156	719.6	31.98
3	28.02.2022	28.03.2022	8.133	721.2	32.05

Note:

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Authorised Signatory

No.01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah layout, Nagasandra, Bangalore - 560 073.
PH.No: 9591618639 GST IN:29CNWPD9510K1ZB Email:civilaimconsultants@gmail.com

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Job No.: CACE/BBMP/NVR /W.No.14/2021-22 Date: 07.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	: **Sri.Narayanappa Venkata Reddy, Contractor, Bangalore.**
Name of the work	: Improvements to Roads Drains and other Maintenance Behind KSCMF Building and Surrounding area in Ward No.14 Bagalagunte –Call 2,BBMP,Bangalore
Sample ID	: Cement Concrete for Raft
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.02.2022	07.03.2022	8.188	500.2	22.23
2	28.02.2022	07.03.2022	8.169	516.8	22.97
3	28.02.2022	07.03.2022	8.174	489.4	21.75

Note:

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Job No.: CACE/BBMP/NVR /W.No.14/2021-22 Date: 28.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **Sri.Narayanappa Venkata Reddy, Contractor, Bangalore.**

Name of the work : Improvements to Roads Drains and other Maintenance Behind KSCMF Building and Surrounding area in Ward No.14 Bagalagunte –Call 2,BBMP,Bangalore

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.02.2022	28.03.2022	8.169	715.2	31.79
2	28.02.2022	28.03.2022	8.176	701.6	31.18
3	28.02.2022	28.03.2022	8.182	726.8	32.30

Note:

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Job No.: CACE/BBMP/NVR /W.No.14/2021-22 Date: 07.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **Sri.Narayanappa Venkata Reddy, Contractor, Bangalore.**

Name of the work : Improvements to Roads Drains and other Maintenance Behind KSCMF Building and Surrounding area in Ward No.14 Bagalagunte –Call 2,BBMP,Bangalore

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.02.2022	07.03.2022	8.198	505.2	22.45
2	28.02.2022	07.03.2022	8.176	516.3	22.95
3	28.02.2022	07.03.2022	8.152	484.6	21.54

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Job No.: CACE/BBMP/NVR /W.No.14/2021-22 Date: 28.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri.Narayanappa Venkata Reddy, Contractor, Bangalore.

Name of the work : Improvements to Roads Drains and other Maintenance Behind KSCMF Building and Surrounding area in Ward No.14 Bagalagunte –Call 2,BBMP,Bangalore

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.02.2022	28.03.2022	8.198	702.2	31.21
2	28.02.2022	28.03.2022	8.184	726.5	32.29
3	28.02.2022	28.03.2022	8.164	719.8	31.99

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Job No.: CACE/BBMP/NVR /W.No.14/2021-22 Date: 08.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **Sri.Narayanappa Venkata Reddy, Contractor, Bangalore.**

Name of the work : Improvements to Roads Drains and other Maintenance Behind KSCMF Building and Surrounding area in Ward No.14 Bagalagunte –Call 2,BBMP,Bangalore

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.03.2022	08.03.2022	8.136	500.2	22.23
2	01.03.2022	08.03.2022	8.154	516.3	22.95
3	01.03.2022	08.03.2022	8.149	498.6	22.16

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Job No.: CACE/BBMP/NVR /W.No.14/2021-22 Date: 29.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **Sri.Narayanappa Venkata Reddy, Contractor, Bangalore.**

Name of the work : Improvements to Roads Drains and other Maintenance Behind KSCMF Building and Surrounding area in Ward No.14 Bagalagunte –Call 2,BBMP,Bangalore

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.03.2022	29.03.2022	8.174	715.2	31.79
2	01.03.2022	29.03.2022	8.189	708.6	31.49
3	01.03.2022	29.03.2022	8.164	700.9	31.15

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Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.03.2022	08.03.2022	8.174	500.2	22.23
2	01.03.2022	08.03.2022	8.164	516.3	22.95
3	01.03.2022	08.03.2022	8.159	489.6	21.76

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Client : **Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **Sri.Narayanappa Venkata Reddy, Contractor, Bangalore.**

Name of the work : Improvements to Roads Drains and other Maintenance Behind KSCMF Building and Surrounding area in Ward No.14 Bagalagunte –Call 2,BBMP,Bangalore

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.03.2022	29.03.2022	8.189	712.3	31.66
2	01.03.2022	29.03.2022	8.164	708.9	31.51
3	01.03.2022	29.03.2022	8.146	724.6	32.20

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Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.03.2022	08.03.2022	8.156	512.2	22.76
2	01.03.2022	08.03.2022	8.138	500.9	22.26
3	01.03.2022	08.03.2022	8.149	476.9	21.20

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Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.03.2022	29.03.2022	8.195	700.5	31.13
2	01.03.2022	29.03.2022	8.146	719.6	31.98
3	01.03.2022	29.03.2022	8.138	724.8	32.21

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Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.03.2022	08.03.2022	8.165	511.2	22.72
2	01.03.2022	08.03.2022	8.174	489.8	21.77
3	01.03.2022	08.03.2022	8.152	500.9	22.26

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Client : Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri.Narayanappa Venkata Reddy, Contractor, Bangalore.

Name of the work : Improvements to Roads Drains and other Maintenance Behind KSCMF Building and Surrounding area in Ward No.14 Bagalagunte –Call 2,BBMP,Bangalore

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.03.2022	29.03.2022	8.198	715.2	31.79
2	01.03.2022	29.03.2022	8.174	724.9	32.22
3	01.03.2022	29.03.2022	8.162	732.9	32.57

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